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TC 1700

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1764 \$

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number	09/590,049
Filing Date	06/08/2000
First Named Inventor	Kenneth J. Southwick
Group Art Unit	1764
Examiner Name	Basia Anna Ridley
Attorney Docket Number	106747.118

Total Number of Pages in This Submission

**ENCLOSURES (check all that apply)**

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment / Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>- Postcard |
|--|---|---|

Remarks

1. Form PTO-1449 (one page)

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**Firm  
or  
Individual name

Daniel P. Gaudet

Signature

Date

Oct 7, 2003

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

Oct. 7, 2003

Typed or printed name

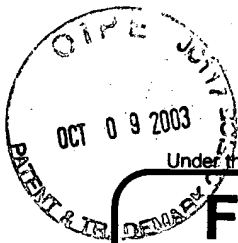
Tina M. Dougal

Signature

Date

Oct. 7, 2003

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

## Complete if Known

Application Number 09/590,049

Filing Date 06/08/2000

First Named Inventor Southwick

Examiner Name Basia Anna Ridley

Art Unit 1764

Attorney Docket No. 106747.118 DV US-09-01

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number  
Deposit Account Name

08-0219

Hale and Dorr LLP

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$)

0.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	
	0		0

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description
1051 130	2051 65	Surcharge - late filing fee or oath
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet
1053 130	1053 130	Non-English specification
1812 2,520	1812 2,520	For filing a request for ex parte reexamination
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action
1251 110	2251 55	Extension for reply within first month
1252 420	2252 210	Extension for reply within second month
1253 950	2253 475	Extension for reply within third month
1254 1,480	2254 740	Extension for reply within fourth month
1255 2,010	2255 1,005	Extension for reply within fifth month
1401 330	2401 165	Notice of Appeal
1402 330	2402 165	Filing a brief in support of an appeal
1403 290	2403 145	Request for oral hearing
1451 1,510	1451 1,510	Petition to institute a public use proceeding
1452 110	2452 55	Petition to revive - unavoidable
1453 1,330	2453 665	Petition to revive - unintentional
1501 1,330	2501 665	Utility issue fee (or reissue)
1502 480	2502 240	Design issue fee
1503 640	2503 320	Plant issue fee
1460 130	1460 130	Petitions to the Commissioner
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)
1806 180	1806 180	Submission of Information Disclosure Stmt
8021 40	8021 40	Recording each patent assignment per property (times number of properties)
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))
1801 770	2801 385	Request for Continued Examination (RCE)
1802 900	1802 900	Request for expedited examination of a design application

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

180.00

180.00

## SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Daniel P. Gaudet	Registration No. (Attorney/Agent)	48,584	Telephone	617-526-6025
Signature	<i>Daniel P. Gaudet</i>	Date	Oct 7, 2003		

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OCT 17 2003

TC 1700

Application of: Kenneth J. Southwick

Application No.: 09/590,049

Filed: June 8, 2000

For: Collider Chamber Apparatus and  
Method of Use of Same

Group Art Unit: 1764

Examiner: Ridley, Basia Anna

Attorney Docket No.: 106747-118 DV US CN1

CERTIFICATE OF MAILING (37 C.F.R. § 1.8 a)

I hereby certify that this correspondence is being deposited with the United States Postal Service under 37 CFR 1.8a and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 7<sup>th</sup> day of October, 2003.

By:

*Tina M. Dougal*  
Tina M. Dougal

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97-98, and M.P.E.P. §609, Applicant hereby encloses Form PTO-1449, which includes publications which have previously been cited in a prior patent application Serial No. 09/354,413 filed July 15, 1999, now issued U.S. Patent No. 6,110,432, and U.S. Serial No. 09/090,121 filed June 4, 1998, now abandoned, from which the above application claims priority under 35 U.S.C. §120. Therefore, pursuant to 37 C.F.R. § 1.98(d), no further copies of the previously cited art is enclosed.

It is respectfully requested that the information above be expressly considered and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

10/15/2003 HUUONG1 00000003 080219 09590049

01 FC:1806 180.00 DA

Serial No. 09/590,049

Southwick

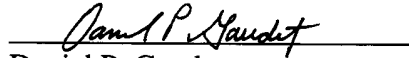
Page 2

As this paper is being filed after the issuance of a first Office Action on the merits, the undersigned hereby authorizes the required fee of \$180 to be deducted from Deposit Account No. 08-0219.

In the event a fee is due, the Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account No. 08-0219.

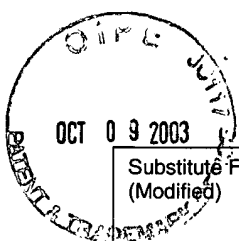
Respectfully submitted,

Dated: October 7, 2003



Daniel P. Gaudet  
Registration No. 48,584  
Attorney for Applicant

Hale and Dorr LLP  
60 State Street  
Boston, Massachusetts 02109  
(617) 526-5138 (telephone)  
(617) 526-5000 (facsimile)



<b>Substitute Form PTO-1449</b> (Modified)  <b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Attorney's Docket No.</b> 106747.118 DV US CN1	<b>Application No.</b> 09/590,049
	<b>Applicant</b> Kenneth J. Southwick		
	<b>Filing Date</b> June 8, 2000	<b>Group Art Unit</b> 1764	

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TC 1700

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	2,965,362	12/1960	Flottman et al.	259	8	
	2,969,960	1/1961	Gurley, Jr.	259	7	
	3,285,702	11/1966	Lamb et al.	23	252	
	3,667,234	6/1972	De Lizasoain	61	1 R	
	3,922,871	12/1975	Bolesta	62	5	
	4,047,068	9/1977	Ress et al.	313	359	
	4,098,582	7/1978	Takeda	55	92	
	4,405,658	9/1983	Young	427	63	
	4,685,443	8/1987	McMurtry	126	247	
	4,685,534	8/1987	Burstein et al.	181	251	
	4,702,846	10/1987	Ryynanen	210	788	
	4,840,645	6/1989	Woodworth et al.	55	1	
	4,913,556	4/1990	Schroter et al.	366	305	
	5,053,127	10/1991	Schoendorfer et al.	210	196	
	5,088,831	2/1992	Reinhall	366	171	
	5,141,328	8/1992	Dilley	366	305	
	5,534,118	7/1996	McCutchen	202	205	
	5,538,630	7/1996	Burns	210	198.1	
	5,554,301	9/1996	Rippetoe et al.	210	748	
	5,571,975	11/1996	Smith, Jr. et al.	73	862.16	
	5,676,801	10/1997	El-Sayed	202	182	
	5,860,605	1/1999	Van Der Zanden	24	27	

Examiner Initial	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
						Yes	No

<b>Examiner Signature</b>	<b>Date Considered</b>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	